

FAST [md wsp-1]
 File View Edit Tools Window Help

Drafts
 BR6:
 ISBN:
 BR5:
 BR6:
 BR6:
 Pending
 Active
 L1: (1480) top adj drive
 L2: (251) pipe adj engagement
 L3: (2) 1 and 2
 L4: (561) pipe adj handling
 L5: (53) 1 and 4
 failed
 (0) 166.ccls.
 Saved
 Favorites
 Tagged
 UDC
 Queue
 Trash

Print USPAI
 Default source: GII

1 and 4

Print Save Copy Delete
 Page Screenshot
 Highlighted items only

Actions Status Groups Filter

	Document ID	Issue Date	Pages	Title	Current OR	Current Xref	Retrieval C	Inventor	S	C
1	<input checked="" type="checkbox"/> US 6227306 B1	20010508	18	Pipe gripping device	173/55	173/147 ; 173/149		Downie, R. James et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/> US 6024181 A	20000215	16	Portable top drive	175/162	173/213 ; 175/195		Richardson, Allan S. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/> US 5433279 A	19950718	22	Portable top drive assembly	173/213	173/147 ; 173/151		Tessari, Robert M. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/> US 5351757 A	19941004	22	Drill pipe handling	175/162	175/203 ; 175/85		Stogner, Huey et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/> US 5107940 A	19920428	20	Top drive torque restraint system	175/85	175/122 ; 175/162		Berry, Joe R.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	<input checked="" type="checkbox"/> US 4981180 A	19910101	10	Positive lock of a drive assembly	173/164			Price, Herman P.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	<input checked="" type="checkbox"/> US 4791997 A	19881220	9	Pipe handling apparatus and method	175/57	166/77.52 ; 175/423		Krasnov, Igor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	<input checked="" type="checkbox"/> US 4605077 A	19860812	17	Top drive drilling systems	175/85	166/77.52 ; 166/85.5		Boyadjieff, George I.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	<input checked="" type="checkbox"/> US 4449596 A	19840522	23	Drilling of wells with top drive unit	175/85	166/77.52 ; 175/52		Boyadjieff, George I.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	<input checked="" type="checkbox"/> US 6212976 B1	20010410	10	Duplex drill pipe wrench apparatus and method for top	61/57.34	61/57.16 ; 61/57.19		Stogner, Huey	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	<input checked="" type="checkbox"/> US 6202274 B1	20010320	10	Arrangement for fastening a piston-cylinder arrangement	29/402.08	175/113 ; 175/202		Vatne, Per	<input checked="" type="checkbox"/>	<input type="checkbox"/>

File Options Read

112
8

055

3

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9 - 19